Page 1 of 25 APPLICATION NO. 09 760,897 ATTY. DOCKET NO. Not Yet Assigned 5817-70 FORM PTO-1449 APPLICANT Harrington et al. GROUP 1632 INFORMATION DISCLOSURE STATEMENT FILING DATE OILTHOI Not Yet Assignate Concurrently Herewith U.S. PATENT DOCUMENTS FICTNG DATE CLASS SUB-CLASS EXAMINER NAME DATE DOCUMENT NUMBER 09/25/1987 69.1 435 INITIAL Gorman 06/18/1991 5,024,939 05/28/1992 AA1 172.3 RRS 435 Chappel 12/21/1993 5,272,071 06/07/1995 AB1 514 8 Lin 08/20/1996 5,547,933 08/05/1994 AC1 69.1 435 Crowley 10/01/1996 5,561,053 08/05/1993 AD1 435 69.1 Sherwin et al. 11/26/1996 AE1 5,578,461 09/06/1994 435 Treco et al. 12/03/1996 5,580,734 AF1 06/06/1995 435 69.4 Lin 04/08/1997 5,618,698 06/06/1995 350 AG1 530 Lin 04/15/1997 5,621,080 240.2 05/13/1994 AH1 435 Treco et al. 06/24/1997 5,641,670 03/02/1994 A11 320.1 435 pevine et al. 10/14/1997 5,677,170 05/23/1995 AJI 320.1 435 Capon et al. 11/04/1997 5,683,905 1200 AK1 FOREIGN PATENT DOCUMENTS TRANSLATION SUB-CLASS CLASS EXAMINER COUNTRY DATE DOCUMENT NUMBER Yes INITIAL No WIPO 11/29/1990 Yes RIB WO 90/14092 Δ1 1 No WIPO 02/07/1991 Yes WO 91/01140 AH1 No WIPO 05/16/1991 Yes WO 91/06667 AN1 Nc WIPO 11/12/1992 Ye: WO 92/19255 AO1 No 11/26/1992 WIPO P 128 WO 92/20808 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Ashe, M.P., et al., "Poly(A) site selection in the HIV-1 provirus: inhibition of promoterproximal polyadenylation by the downstream major splice donor site, " Genes & Develop. 9:3008-3025 RM AR 1 (1995). Auch, D., and Reth, M., "Exon trap cloning: using PCR to rapidly detect and clone exons from genomic DNA fragments," Nucl. Acids Res. 18:6743-6744 (1990). AS 1 Avoustin, P., et al., "Non-homologous recombination within the Major Histocompatability Complex creates a transcribed hybrid sequence, " Mammalian Genome 5(12):771-776 (1994). 1 ΑT

EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

RN

Page 2 of 25

						-				
RAS	AT	2	Brikum, Bacterio	1., et al., MANG logy 178(6):1614 RNS	alysis of CRP-CytR Interactions -1622 (March 1996).		richia coli u			
	AS	2	Black, A. Specific	C., et al., "HT! RNA Secondary S	LV-II Rex Binding and Activity F tructure," <i>AIDS Res. & Human Ret</i>	Requires an I roviruses 8:1	ntact Splice 370 (1992).	Donor Site an		
zns 1	AR	2	Barker, C. Moloney M	.s., et al., "Ac urine Leukemia \	tivation of the Prolactin Recep/irus-Induced Rat Thymoma," $J.\ Y$	tor Gene by (irol. 66(11)	Promoter Inse 6763-6768 (1	ertion in a 992).		
			OTHER	(Including Auth	or, Title, Date, Pertinent Page	<u>.,,</u>				
RRS	AP2	WO 9	5/31560	11/23/1995	WIPO Participant Page	e etc.)				
<u> </u>	A02	FR 2	707 091	01/06/1995	France					
	AN2	AU 7	1893/94	06/30/1994	Australia	_		-		
+	AM2	WO 94	/12650	06/09/1994	WIPO					
RRS 1	AL2	WO 93	/09222	05/13/1993	WIPO					
ITIAL	TIAL DOCUMENT NUMBER		ENT NUMBER	DATE	COUNTRY			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
AMINER	1					CLASS	SUB-CLASS	TRANSLATION		
	AK			FORE	IGN PATENT DOCUMENTS			1		
	AJ	-								
	AI	-	<u>·</u>	 						
رحمال	AH2	5,843	,772	12/01/1998	Devine et al.	-\				
	AG2	5,830	,698	11/03/1998	Reff et al.	435	320.1	06/10/1996		
+	AF2	5,789	,215	08/04/1998	Berns et al.	435	69.1	03/14/1997		
	VES	5,783,		07/21/1998	Treco et al.	435	172.3	08/07/1997		
	AD2	5,733,		03/31/1998	Treco et al.	435	172.3	05/26/1995		
	AB2	5,728, 5,733,		03/31/1998	Treco et al.	435	69.6	03/17/1995		
1 RPS	AA2	5,707,		01/13/1998	Devine et al.	435	91.41	03/02/1995		
TIAL			NT NUMBER	DATE	NAME Calos	435 -	69.1	04/02/1997		
INER		T				CLASS	SUB-CLASS	FILING DATE		
		 		U.S.	PATENT DOCUMENTS		 ' 1			
211					FILING DATE 1/17/0) GROUP 1632 Concurrently Herewith Not Yet Assigned					
TN	FORMAT 10	N DISCLO	SURE STATE	<u>IENT</u>	Harrington et al. GROUP 1632_					
	6	ORM PTO	-1449		APPLICANT					

. . .

					ATTY. DOCKET NO. 5817-70		APPLIC No:	ATION NO. O	9 7 6 0877
	INEODMAT		PTO-1449		APPLICANT Harrington et al.				
	INIONNAI		SCLOSURE STAT	EACN)	FILING DATE 11701 Concurrently Herewit		GROUP No-1	16 3 Yet Ass	2— igned
		<u> </u>		U.S.	PATENT DOCUMENTS				
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLA	ss	SUB-CLASS	FILING DATE
	M								
	AB	_}							
	AC		···						
	AD	-				-		ļ	
	AE AF	+							
	AG					+			
	AH	 				┪	<u> </u>	 	
	AI	1						 	
	LA			·		1			
	AK								
				FOREIG	GN PATENT DOCUMENTS				
EXAMINER INITIAL		DOCL	MENT NUMBER	DATE	COUNTRY	CLAS	ss	SUB-CLASS	TRANSLATION
RRS	AL3	Wo s	76/04391	02/15/1996	WIPO	.			Yes No
. • \	AM3	yo s	96/29411	09/26/1996	WIPO				Yes
	AN3		742 285 A1			1-			Yes
				11/13/1996	Europe	+			No Yes
	A03	WO 9	98/14614 A1	04/09/1998	WIPO	+-			No.
BUS	AP3	WO 9	9/07389 A1	02/18/1999	WIPO				Yes No
		,	OTHER (Including Author,	, Title, Date, Pertinent Pages,	etc.)			
213	AR	3	Buckler, A., splicing, " /	., et al., "Exon Proc. Watl. Acad.	amplification: A strategy to i Sci. USA 88:4005-4009 (1991).	, solate	mamma (lian genes t	pased on RNA
	AS	3	Butturini, / (1987).	A., et al., "Onco	genes in Human Leukemias," <i>Acta</i>	Наета	tologic	a 78(supp1.	<i>1):</i> 2-10
pris	AT	3	Butturini, /	A., and Gale, R.P	., "Oncogenes and Human Leukemi	as," /	ntl. J	. Cell Cloni	ng 6(1):2-24
EXAMINER				RN		DATE	CONSIDE	RED 9/18	203
EXAMINER: In	itial if	refere	ence considere	ed, whether or no	ot citation is in conformance wi	th MPE	P 609.	Draw Line	through
CITATION IT	00 10 CO	TOTEL	nce and not co	onsidered. Inclu	de copy of this form with next	COULTE	icatio	n to Applic	ent.

		FORM	PTO-1449		ATTY. DOCKET NO. 5817-70	APPI	LICATION NO. C Not Yet As	760967
	INFORMAT	ION DI	SCLOSURE STAT	EHENT	Harrington et al. FILING DATE 11701 Concurrently Herewith	GRO		<u>)</u>
				U.S.	PATENT DOCUMENTS	<u> </u>	lot Yet Ass	signed
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA		· · · · · · · · · · · · · · · · · · ·					
	AB	-	 					
	AC	+-						ļ
	AD AE	-				- 		
<u> </u>	AF	+	 -			 		
	AG	-	•			+		
	AH	1						
	AI							
	AJ							
	AK			<u> </u>		<u> </u>		
	- ₁			FOREIG	IN PATENT DOCUMENTS			
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
PR	AL4	WO .	99/15650 A1	04/01/1999	WIPO			Yes No
	AM							Yes No
	AN				,			Yes No
	AO				•			Yes No
	AP							Yes No
			OTHER (Including Author,	Title, Date, Pertinent Pages,	etc.)		<u> </u>
RPS	AR	<u>4</u>			Transforming function of proto-/ specific point mutations," <i>Pro</i> c	•	depends on her cad. Sci. USA	terologous <i>88</i> :2217-2221
	AS	4	Chang, W., 6	e <i>t al.,</i> "Enrichmei 37-747 (1993).	nt of Insertional Mutants Follow	ring Retro	virus Gene Tra	ap Selection,"
RAS	AT	4	Chow, WY., mutations,	, and Berg, D.E., Proc. Natl. Acad.	"TnStac1, a derivative of trans Sci. USA 85:6468-6472 (1988).	sposon Ins	that generat	es conditional
EXAMINER			1218			DATE CONS	IDERED 9/12	405
EXAMINER: In	itial if	refer	ence considere	ed, whether or no onsidered. Inclu	t citation is in conformance wilde copy of this form with next	th KPEP 60	9. Draw line	through ant.

Page 5 of 25 ATTY. DOCKET NO. 5817-70 FORH PTO-1449 APPLICANT Harrington et al. exoup 1632_______Not Yet Assigned INFORMATION DISCLOSURE STATEMENT गाञ्चा FILING DATE Concurrently Herewith U.S. PATENT DOCUMENTS SUB-CLASS FILING DATE CLASS EXAMINER NAME DOCUMENT NUMBER DATE INITIAL AA AB AC AD ۸E AF AG AH ΑĮ AJ AK FOREIGN PATENT DOCUMENTS TRANSLATION SUB-CLASS CLASS EXAMINER COUNTRY DOCUMENT NUMBER DATE Yes . INITIAL No Yes No Yes MA No Yes AN No Yes AO No ΔΡ OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Church, D.M., et al., "Isolation of genes from complex sources of mammalian genomic DNA using exon amplification," Nature Genetics 6:98-105 (1994). RR 2 AR Crabb, B.S., and Cowman, A.F., "Characterization of promoters and stable transfection by homologous and nonhomologous recombination in *Plasmodium falciparum*," *Proc. Natl. Acad. Sci. USA* <u>5</u> AS 93:7289-7294 (July 1996). Datson, N.A., et al., "Specific isolation of 3'-terminal exons of human genes by exon trapping," Nucl. Acids Res. 22(20):4148-4153 (1994). 5 eng ΑT

EXAMINER: Initial if reference considered, whether or not citation is in conformance with KPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED 9/12/05

Page 6 of 25 ATTY. DOCKET NO. 5817-70 APPLICATION NO. 09 760,897 FORM PTO-1449 **APPLICANT** Harrington et al. INFORMATION DISCLOSURE STATEMENT ROUP 1632 Not Yet Assigned 117701 FILING DATE **GROUP** Concurrently Herewith U.S. PATENT DOCUMENTS EXAMINER CLASS DOCUMENT NUMBER NAME SUB-CLASS | FILING DATE DATE INITIAL AA AB AC AD ΑE AF AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER COUNTRY CLASS SUB-CLASS TRANSLATION INITIAL DOCUMENT NUMBER DATE Yes No Yes No ٨M Yes No AN Yes No AO Yes No ΔP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Datson, N.A., et al., "Scanning for genes in large genomic régions: cosmid-based exon trapping of multiple exons in a single product," Nucl. Acids Res. 24:1105-1111 (March 1996). AR 6 De Benedetti, A., and Rhoads, R.E., "A novel BK virus-based episomal vector for expression of foreign genes in mammalian cells," *Nucl. Acids Res. 19*:1925-1931 (1991). <u>6</u> AS Dickson, C., et al., "Tumorigenesis by House Hammary Tumor Virus: Proviral Activation of a Cellular Gene in the Common Integration Region Int-2," Cell 37:529-536 (1984). AT <u>6</u> DATE CONSIDERED 9 12/05 EXAKINER

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 7 of 25

					ATTY. DOCKET NO. 5817-	70	APPLIC	ATION NO. O	9/760,897
TATE			10-1449 Losure state	WENT	APPLICANT Harrington et al.		<u> </u>		
AN	PUKMAT I L	M_DISC	COSURE SINIE	<u>neni</u>	FILING DATE OUT TO CONCURRENTLY Herewi]:	GROUP	163.	2
				11 9	PATENT DOCUMENTS	<u> </u>	- 446	- tor not	Ekileu
EXAMINER		2000	5117 MIRVOSO		NAME	CI	ASS	SUR-CLASS	FILING DATE
INITIAL	AA	DOCUM	ENT NUMBER	DATE	MARE	100	-	COD CENSO	TIEING DATE
	AB	 							
	AC								
	AD								
	AE	 						 	
	AF	 			•				
	AG	 -				_			
	AH AI	 			· · · · · · · · · · · · · · · · · · ·				
	AJ	 							
	AK								
				FORE1	ON PATENT DOCUMENTS			·	
EXAMINER INITIAL		DOCUM	ENT NUMBER	DATE	COUNTRY	CL	AS\$	SUB-CLASS	TRANSLATION
	AL								Yes No
	АМ								Yes No
	AN								Yes
	AO								Yes
<u> </u>			·						Yes
	AP	<u> </u>	OTUED A	Including Author	, Title, Date, Pertinent Page	s. etc.)		
Rus	AR	Z			of Retroviral Vectors for Map 07. 69:3093-3100 (1988).			Sites in Co	ttontail Rabbit
	AS	Z	Promotion a	o.H., et al., "Can nd Progression du up. 197-211 (1991	ncer Genes by Non-Homologous ring Carcinogenesis, Sudilovs	Recombi ky, O.,	nation,' et al.,	in: <i>Bounda</i> eds., Plen	<i>ries between</i> um Press, New
Pas	AT	Z	Duyk, G.H., in cloned t	, et al., "Exon t nammalian genomic	rapping: A genetic screen to DNA, Proc. Natl. Acad. Sci.	identif USA 87	y candio :8995-89	date transcr 99 (1990).	ibed sequences
EXAMINER		1	l	Ri	13	DAT	E CONSI	ERED 9	/12/05
EXAMINER: Inf	tial if	refere	ence consider	red, whether or r	not citation is in conformance	with I	PEP 609	. Draw Lin	e through

Page 8 of 25 APPLICATION NO. 09 760,897 ATTY. DOCKET NO. 5817-70 -Not Vet Assigned FORM PTO-1449 APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT 1632 GROUP 1/17/01 FILING DATE Not Vet Assigned Concurrently Hercuith U.S. PATENT DOCUMENTS FILING DATE CLASS SUB-CLASS EXAMINER NAME DATE DOCUMENT NUMBER INITIAL AA AB AC AD ΑE AF AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS TRANSLATION SUB-CLASS CLASS EXAMINER COUNTRY DOCUMENT NUMBER DATE Yes INITIAL No Yes No Yes No Yes AN No Yes AO AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Frankel, W., et al., "Retroviral insertional mutagenesis of a target allele in a heterozygous murine cell line," Proc. Natl. Acad. Sci. USA 82:6600-6604 (1985). RRS AR 8 Fujisawa, J.-1., et al., "Functional activation of the long terminal repeat of human T-cell leukemia virus type I by a trans-acting factor," Proc. Natl. Acad. Sci. USA 82:2277-2281 (1985). AS 8 Fung, Y.-K.T., et al., "Activation of the Cellular Oncogene c-erb8 by LTR Insertion: Molecular Basis for Induction of Erythroblastosis by Avian Leukosis Virus," Cell 33:357-368 (1983). AT 8 Rrs

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 9 of 25

				ATTY. DOCKET NO. 5817-70	APPLION NO	CATION NO. 09 \ 760, 897
		FORM PTO-1449 ON DISCLOSURE STAT	ENEUT	APPLICANT Harrington et al.		
14	ITUKRAT IL	N DISCLUSORE SIAI	EGEN!	FILING DATE OILTOI Concurrently Herewith	GROUP	1632 t Yet Assigned
			U.S.	PATENT DOCUMENTS	1 - 1	
EXAMINER	T				CLASS	SUB-CLASS FILING DATE
INITIAL	AA .	DOCUMENT NUMBER	DATE	NAME	-	JOB-CLASS FILING DATE
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH			<u> </u>	 	
	IA.				 	
	AJ				 	
	AK			DI PATEUT DOGINEUTE	1	
	1	1	FOREIG	GN PATENT DOCUMENTS	T	
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS TRANSLATION
	AL					Yes No
	АМ					Yes No
						Yes No
	AN					Yes No
	AO	<u> </u>			 	Yes
	AP	<u> </u>			<u> </u>	No
	· · · · · · · · · · · · · · · · · · ·	OTHER	(Including Author	, Title, Date, Pertinent Pages,	etc.)	
EB.	AR	g Goff, S.P.	, "Gene Isolation	by Retroviral Tagging, # Meth. E	nzymology 1	52:469-481 (1987).
	AS	2 Hayward, W Lymphoid L	.s., et al., "Acti eukosis," <i>Nature 2</i>	ivation of a cellular <i>onc</i> gene b 290:475-480 (1981).	y promoter	insertion in ALV-induced
RUS	AT	9 Jackson, I 3798 (1991	.J., "A reapprais	al of non-consensus mRNA splice	sites," Hu	cl. Acids Res. 19(14):3795-
EXAMINER	_1	LL	RNS.		DATE CONS	IDERED 9/12/05
EXAKINER: In	itial if	reference conside	ced shether or n	ot citation is in conformance w	th MPEP 60	9. Draw line through
citation if n	at in cor	nformance and not	considered. Incl	ude copy of this form with next	communicat	ion to Applicant.

Page 10 of 25 APPLICATION NO. 09/760,897 ATTY. DOCKET NO. 5817-70 Not Yet Assissed **FORM PTO-1449** APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT 0117/01 GROUP 1632 FILING DATE Not Yet Assigned Concurrently Herewith U.S. PATENT DOCUMENTS EXAMINER SUB-CLASS FILING DATE CLASS DOCUMENT NUMBER DATE NAME INITIAL AA AB AC AD AΕ AF AG AH 1A L۸ AK FOREIGN PATENT DOCUMENTS EXAMINER SUB-CLASS TRANSLATION CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No AL Yes No AM Yes Νо AN Yes No AO Yes No AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Joshi, S., "A Putative Approach for Cloning 'Silent' Genes Using Retroviral Vectors," Med. Hypoth. 36:242-245 (1991). RKS AR <u>10</u> Joyner, A.L., "Gene Targeting and Gene Trap Screens Using Embryonic Stem Cells: New Approaches to Mammalian Development," BioEssays 13:649-656 (1991). <u>10</u> AS Junejo, F., et al., "Sequence analysis of the herpes simplex virus type 1 strain 17 variants 1704, 1705 and 1706 with respect to their origin and effect on the latency-associated transcript sequence," J. Gen. Virol. 72:2311-2315 (1991). 10 AT krs

M EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

Page 11 of 25

					ATTY. DOCKET NO.	817-70_	APPLICA - No	t Yet As	9/760,87 +
		FORM PTO		WENT	APPLICANT Harrington et al.				
<u> 1</u> 1	FORMATIC	N DISCL	OSURE STATE	MENT	FILING DATE OILTH	0)	GROUP	•	32
					- Concurrent ly Ha	TOWELD		e-Yet-An	
		T		0.3.	PRIENT DOCUMENTO				
(ANINER (ITIAL	İ	DOCUME	NT NUMBER	DATE	NAME	- CL	ASS	SUB-CLASS	FILING DATE
	AA								
	AB	1							
	AC	ļ							
	AD								
	AE								
<u> </u>	AF	┤╌ ╌							
	AG	1						<u> </u>	
	AI				·			<u> </u>	
	AJ	1						 	
	AK	1							
				FOREI	GN PATENT DOCUMENTS			1	
EXAMINER					COUNTRY		LASS	SUB-CLASS	TRANSLATION
MITIAL		DOCUM	ENT NUMBER	DATE	COUNTRY				Yes
	AL	1						 	Yes
									No.
	AM								Yes
	AN	}							Ye
						1			N
	AO		<u> </u>						Ye
	AP								
		<u> </u>	OTHER	(Including Autho	r, Title, Date, Pertinent	t Pages, et	c.)		
RM.	AR	11	King, W., 228:554-55	et al., "Inserti 8 (1985).	on Mutagenesis of Embryon	nal Carcino	na Cells	by Retrovir	uses,# <i>Science</i>
	AS	11	Kreissig, Acids Res	s., et al., "Exp . 24:4358-4359 (N	pression of peptides enco ovember 1996).	ded by exon	s in clo	ned mammalia	in DNA," Nucl.
Rps	AT	11	LUNCTION	, and Jolicoeur, fragment in seve . USA 81:38-42 (1	P., "Rearrangement of a ral Moloney murine leuken 1984).	DNA sequent nia virus-i	ce homolo nduced ra	gous to a c at thymomas,	ell-virus " <i>Proc. Natl</i> .
EXAMINER				ROS			ATE CONS		12/05
1				dered, whether or					

:

					ATTY. DOCKET NO. 5817	-70 APPI	ICATION NO. 09	1760, 897 ned_
		FORM PTO	D-1449		APPLICANT			
•	VEORMAT I	ON DISCL	OSURE STATE	HENI'	Harrington et al.	2/ GRO	m /63	
_	11 - (1-11-1				FILING DATE 1/17/0			doned)
				U.:	S. PATENT DOCUMENTS			
WINER	1			DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TIAL	 	DOCUME	NT NUMBER	DATE		_		
	<u> ^^</u>							
	AB							
	AC	┪						
	AD	 						
	AE	+						<u> </u>
	AF	+					<u> </u>	
	AG_	+		<u> </u>				ļ -
	AH A1							<u> </u>
	AJ							ļ
	AK	┪						
	1 44			FOR	REIGN PATENT DOCUMENTS			1
		1				CLASS	SUB-CLASS	TRANSLATION
AMINER		DOCUR	ENT NUMBER	DATE	COUNTRY	CLASS	30B-CEA33	Y
				1				
	^L			+				۲
	AH	1						
						ì	İ	
	AN							,
	1.0	l						-
	AO		<u>'</u>				ł	'
	AP	l						
			OTHER	(Including Aut	hor, Title, Date, Pertinent	Pages, etc.)		
rrs	AR	12	Liang, Y., Pancreatio	et al., ¤Effe : Islet, Liver,	cts of Alternate RNA Splicin and Pituitary, J. Biol. Ch	g on Glucokina em. 266(11):699	se Isoform Acti 9-7007 (1991).	vities in the
	AS	12	Lih, CJ mouse gen	., et al., "Rap omes," <i>Gene 16</i> 4	oid identification and isolat 1:289-294 (1995).	ion of transcr	iptionally act	ive regions fr
p.ns	AT	12	Liu, Z., Baby Rat	et al., "The E Kidney Cells i	6 Gene of Human Papillomavir n Cotransfection with Activa	us Type 16 ls : ted Ha- <i>ras</i> , " <i>V</i>	Sufficient for frology 201:388	Transformation
EXAMINER				RR			CONSIDERED 9	12/05
				10101	or not citation is in confor		- 400 1	ab-action

Page 13 of 25 APPLICATION NO.09/760,897 ATTY. DOCKET NO. 5817-70 Not Yet Assigned FORM PTO-1449 APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT 1632 **GROUP** FILING DATE DILLA O) Not You Assigned Concurrently Herowith U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS FILING DATE DATE NAME DOCUMENT NUMBER INITIAL AA AB AC AD AΕ AF AG AH AI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER TRANSLATION CLASS SUB-CLASS I COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No ΔL Yes No AM Yes No AN Yes No AO Yes No AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Mölders, H., et al., "Integration of transfected LTR sequences into the c-raf proto-oncogene: activation by promoter insertion, # EMBO J. 4(3):693-698 (1985). <u>13</u> AR Moore, R., et al.. "Sequence, topography and protein coding potential of mouse int-2: a putative oncogene activated by mouse mammary tumour virus," EMBO J. 5(5):919-924 (1986). AS <u>13</u> Müller, R., and Müller, D., "Co-transfection of normal NIH/3T3 DNA and retroval LTR sequences: a novel strategy for the detection of potential c-onc genes, # EMBO J. 3(5):1121-1127 (1984). AT 13

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

elle

					ATTY. DOCKET NO. 58	317-70	APPLICA'	Yet As	1/760,872— Elgned
		FORM PTO	-1449		APPLICANT				
. [N	FORMATIO	N DISCL	DSURE STATE	KENT	FILING DATE DI/17	n-(GROUP	1632	
					Concurrently H	erewith		Yet As	tened
				U	S. PATENT DOCUMENTS				
	T	1				.	455	SUB-CLASS	FILING DATE
MINER TIAL		DOCUME	NT NUMBER	DATE	NAME		ASS -	308-CLX33	TIEIRG DATE
	AA								
	AB								
	AC	<u> </u>							
	AD_	<u> </u>							
	AE	-							
	AF	 							
	AG			 					
	AH								ļ
	AI							<u> </u>	
	AJ								<u> </u>
	AK			FO	REIGN PATENT DOCUMENTS			·	
				1				SUB-CLASS	TRANSLATION
AMINER HTIAL	l	DOCUM	ENT NUMBER	DATE	COUNTRY		LASS	SUB-CLASS	YOURSERTION
					,				
	AL								Y
	AN								
	- 					1			
	AN								7
	1	l l							
	AO								X
•	AP								
			OTHER	(Including Au	thor, Title, Date, Pertine	ent Pages, et			
rv)	AR	14	Muth, K., Embryonic	et al., "Disr Stem Cells,"	uption of Genes Regulated Develop. Dynamics 212:277-	During Hemat 283 (June 199	opoietic 98).	Differentia	ation of Mouse
	AS	14	Neel, B.G Virus-Ind	., et al., "Mo uced Lymphoma:	olecular Analysis of the c- s," <i>J. Virol</i> . 44(1):158-166	- <i>myc</i> Locus in 3 (1982).	n Normal '	Tissue and	in Avian Leuko
ev,	AT	14	I CIONING I	JF., and Ru Vectors and The	benstein, J.L.R., "Retrovi eir <i>Uses</i> , Rodriguez, R.L.,	ral Vectors, et al., eds.	" In: <i>Ye</i> c , Buttern	ctors: A Sur Porths Publi	rvey of Molecul
				21.		T	DATE CONS	IDERED C	1/12/05
EXAMINER				RNS		1			1 1 2

APPLICATION NO. 09/760,877 Not Yet Assigned ATTY. DOCKET NO. 5817-70 **FORM PTO-1449** APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT 1/17/0/ GROUP FILING DATE <u>Herewith</u> · Not Concurrently U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS | FILING DATE NAME DOCUMENT NUMBER DATE INITIAL AA AB AC AD ΑE AF AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER SUB-CLASS TRANSLATION CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No AL Yes No AH Yes No AN Yes No AO Yes No AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Nilsen, T.W., et al., "c-erbB Activation in ALV-Induced Erythroblastosis: Novel RNA Processing and Promoter Insertion Result in Expression of an Amino-Truncated EGF Receptor," Cell 41:719-726 <u>15</u> AR (1985). Niwa, H., et al., "An Efficient Gene-Trap Method Using Poly A Trap Vectors and Characterization of Gene-Trap Events," J. Blochem. 113:343-349 (1993). AS <u>15</u> Nottenburg, C., and Varmus, H.E., "Features of the Chicken c-myc Gene That Influence the Structure of c-myc RNA in Normal Cells and Bursal Lymphomas," Hol. Cell. Biol. 6(8):2800-2806 <u>15</u> AT (1986).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

APPLICATION NO 09 760 897 ATTY. DOCKET NO. 5817-70 FORM PTO-1449 APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT 1632 81/17/0/ ly Herewith GROUP FILING DATE Not Concurrently U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS | FILING DATE NAME DOCUMENT NUMBER DATE INITIAL AA AB AC AD ΑE AF AG AH AI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER SUB-CLASS TRANSLATION CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No AL Yes No AN Yes No AN Yes Nc AO Yes Nc OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Nouvel, P., "The mammalian genome shaping activity of reverse transcriptase," Genetica 93:191-201 PR AR 16 (1994). Nusse, R., "The activation of cellular oncogenes by retroviral insertion," *Trends in Genetics* 2:244-247 (1986). AS 16 Nusse, R., and Berns, A., "Cellular Oncogene Activation by Insertion of Retroviral DNA; Genes Identified by Provirus Tagging," In: *Cellular Oncogenes Activation*, Klein, G., ed., Marcel Dekker, Inc., New York, NY, pp. 95-119 (1988). AT 16 DATE CONSIDERED 9/12/05 EXAMINER

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

APPLICATION NO. 2 ATTY. DOCKET NO. 5817-70 FORM PTO-1449 APPLICANT Harrington et al INFORMATION DISCLOSURE STATEMENT FILING DATE 01/17/05 GROUP Not Concurrently Herewith U.S. PATENT DOCUMENTS **EXAMINER** CLASS SUB-CLASS FILING DATE NAME DOCUMENT NUMBER DATE INITIAL AA AB AC AD ΑE ۸F AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER SUB-CLASS TRANSLATION CLASS DOCUMENT NUMBER COUNTRY INITIAL No AL AM Yes AN Yes No AO Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Payne, G.S., et al., "Multiple arrangements of viral DNA and an activated host oncogene in bursal lymphomas," Nature 295:209-215 (1982). <u>17</u> AR Peters, G., et al., "Tumorigenesis by Mouse Hammary Tumor Virus: Evidence for a Common Region for Provirus Integration in Hammary Tumors," Cell 33:369-377 (1983). <u>17</u> AS Petitclerc, D., et al., "The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

transgenic mice, " J. Biotechnol. 40:169-178 (1995).

17

ΑT

EXAMINER

					ATTY. DOCKET NO. 581	7-70 APPLIC	ATION NO.09/	360,817
		FORM PT			APPLICANT Harrington et al.			
1	<u>NFORMATI</u>	ON DISCL	OSURE STATE	<u>MENT</u>	FILING DATE 0//17/0/	GROUP N	1637	
				U.	S. PATENT DOCUMENTS			
MINER						CLASS	SIR-CLASS	FILING DATE
ITIAL		DOCUME	ENT NUMBER	DATE	NAME	- CLASS	1 303 52.55	
	<u> </u>	 						
	AB AC							
	AD	+						
	AE						ļ	
	AF	1						
	AG							
	AH							
	AI							
	AJ							
	AK			<u> </u>				
				FOI	REIGN PATENT DOCUMENTS			
AMINER ITIAL		DOCUM	KENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION Y
	AL	-]						
	1					l		Y
	AH			 				Y
	AN	İ	•	_				
	- 					İ		Y
	AO							Y
	AP							
	1 73		OTHER	(Including Aut	hor, Title, Date, Pertinent I	Pages, etc.)		
R13	AR	18	Reinhart, from Sooty	T.A., et a7., Mangabey Monk	"RNA Splice Site Utilization leys," <i>Virology 224:</i> 338-344 (0	by Simián Immuno ctober 1, 1996).	deficiency V	iruses Derived
	AS	18	Robinson, Carcinoma,	w.s., "Molecul " Annu. Rev. h	er Events in the Pathogenesised. 45:297-323 (1994).	s of Hepadnavirus	s-Associated	Hepatocellula
	AT	18	Salminen, Active in 333 (June	Ditterentiate	Efficient Poly A Trap Approac d Embryonic Stem Cells and in	h Allows the Cap a Kouse Embryos,	ture of Genes <i>Develop. Dyn</i>	Specifically amics 212:326
EXAMINER		L		ir.	M.	DATE CON		almos
					or not citation is in conform include copy of this form with			

Page 19 of 25 APPLICATION NO. 09 760 897 Not Yet Assigned ATTY. DOCKET NO. 5817-70 **FORM PTO-1449** APPLICANT Harrington et al. INFORMATION DISCLOSURE STATEMENT 01/17/01 1632 GROUP FILING DATE Concurrently Herewith U.S. PATENT DOCUMENTS **EXAMINER** CLASS SUB-CLASS FILING DATE NAME DOCUMENT NUMBER DATE INITIAL * AB AC AD Æ AF AG AH Αī AJ AK FOREIGN PATENT DOCUMENTS SUB-CLASS TRANSLATION EXAMINER CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No AL Yes. No AM Yes No AN Yes Nc ΑO Yes Nc AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Segal, D., et al., "Genetic Transformation of Drosophila Cells in Culture by P Element-Mediated Transposition," Samatic Cell and Hol. Genetics 22(2):159-165 (March 1996). 19 AR Shen-Ong, G.L.C., et al., "Activation of the c-myb Locus by Viral Insertional Mutagenesis in Plasmacytoid Lymphosarcomas," Science 226:1077-1080 (1984). 19 AS Shen-Ong, G.L.C., et al., "Two Hodes of c-myb Activation in Virus-Induced Mouse Myeloid Tumors," Mol. Cell. Biol. 6(2):380-392 (1986). ΑT <u> 19</u> 9/10/15 DATE CONSIDERED EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through

citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 20 of 25 APPLICATION NO.09 360,893 ATTY. DOCKET NO. 5817-70 **FORM PTO-1449** APPLICANT Harrington et al INFORMATION DISCLOSURE STATEMENT 17101 GRAUP FILING DATE Assigned Concurrently U.S. PATENT DOCUMENTS EXAMINER SUB-CLASS FILING DATE CLASS NAME DOCUMENT NUMBER DATE INITIAL * AB AC AD AΕ AF AG AH ΑI LA AK FOREIGN PATENT DOCUMENTS **TRANSLATION** EXAMINER CLASS SUB-CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No AL Yes No AH Yes No AN Yes No AO Yes No ΔP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Shin, S., and Steffen, D.L., "Frequent activation of the *lck* gene by promoter insertion and aberrant splicing in murine leukemia virus-induced rat lymphomas," *Oncogene 8*:141-149 (1993). 20 AR Simpson, K., et al., "Stable Episomal Maintenance of Yeast Artificial Chromosomes in Human Cells," Mol. Cell. Biol. 16:5117-5126 (September 1996). <u>20</u> AS Stary, A., and Sarasin, A., "Simian virus 40 (SV40) large T antigen-dependent amplification of an Epstein-Barr virus-SV40 hybrid shuttle vector integrated into the human HeLa cell genome," J. 20 Gen. Virol. 73:1679-1685 (1992). 03 DATE CONSIDERED EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 21 of 25 APPLICATION NO. 09/760,897 ATTY. DOCKET NO. Not Yet Assigned 5817-70 FORH PTO-1449 APPLICANT <u> Harrington et al</u> INFORMATION DISCLOSURE STATEMENT FILING DATE OF 1637 12/01 GROUP Not Yet Assigned Concurrent 1 <u>Herewith</u> U.S. PATENT DOCUMENTS SUB-CLASS FILING DATE CLASS EXAMINER NAME DATE DOCUMENT NUMBER INITIAL AA AB AC AD ۸E AF AG AH AI AJ AK FOREIGN PATENT DOCUMENTS TRANSLATION SUB-CLASS CLASS **EXAMINER** COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No AL Yes No Yes No AH Yes No Yes AD No AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Steffen, D., "Proviruses are adjacent to c-myc in some murine leukemia virus-induced lymphomas," Proc. Natl. Acad. Sci. USA 81:2097-2101 (1984). pres AR 21 Sun, T.-Q., et al., "Human artificial episomal chromosomes for cloning large DNA fragments in human cells," Nature Genetics 8:33-41 (1994). <u>21</u> AS Takami, Y., et al., "Cloning and Characterization of Human Papillomavirus Type 52 From Cervical Carcinoma in Indonesia," Int. J. Cancer 48:516-522 (1991). 21 AT 9 DATE CONSIDERED 0 EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 22 of 25 APPLICATION NO. 09/760,857 ATTY. DOCKET NO. 5817-70 Not Yet Assigned **FORM PTO-1449 APPLICANT** Harrington et al. INFORMATION DISCLOSURE STATEMENT 1632 1210) GROUP 01 FILING DATE Not Yet Assigned Concurrent by U.S. PATENT DOCUMENTS FILING DATE CLASS SUB-CLASS EXAMINER NAME DOCUMENT NUMBER DATE INITIAL 88 AB AC AD ٨E AF AG АH AI AJ AK FOREIGN PATENT DOCUMENTS TRANSLATION SUB-CLASS CLASS EXAMINER COUNTRY DOCUMENT NUMBER DATE INITIAL No Yes AL Nc AM Yes Nc Ye: AN Nic Ye: AO OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Tashiro, S., et al, "Identification of illegitimate recombination hot spot of the retinoic acid receptor alpha gene involved in 15;17 chromosomal translocation of acute promyelocytic leukemia," <u>22</u> AR Oncogene 9:1939-1945 (1994). Tsichlis, P.N., et al., "A common region for proviral DNA integration in McMuLV-induced rat thymic lymphomas," *Wature 302:445-449* (1983). AS <u>22</u> Unger, R.E., et al., "Simian Immunodeficiency Virus (SIVmac) Exhibits Complex Splicing for tat. rev. and env mRNA," Virology 182:177-185 (1991). AT <u>22</u> DATE CONSIDERED 9/ wos EXAMINER

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 23 of 25

			<u> </u>		ATTY. DOCKET NO. 581	17-70	APPLICA No.	TION NO. 5	1761,897
	1	FORM PTO	-1449		APPLICANT				
INF	ORHATIO	M DISCLO	SURE STATE	MENT	Harrington et al.	701	GROUP	163	2
		_			Concurrently He	rewith	No	Yet Ass	lened
				u.s.	PATENT DOCUMENTS				
MINED		Γ				CI.	ASS	SUB-CLASS	FILING DATE
MINER TIAL		DOCUME	NT NUMBER	DATE	NAME	<u>-</u> -	_		
	м	ļ							
	AB	 							
	AC	 							
	AD								<u> </u>
	AF	1							
	AG	+						 	
	AH				<u> </u>				
	AI							 	
	AJ								
	AK	<u> </u>			IGN PATENT DOCUMENTS				
		<u> </u>		FORE	IGN PATENT DOCCMENTS				
AMINER ITIAL	1	DOCUM	ENT NUMBER	DATE	COUNTRY	9	LASS	SUB-CLASS	TRANSLATION
ITIAL	 	1							·
	AL								Y
	AM			·				 	Y
	 '					İ			<u> </u>
	AN								Y
	AO	1.							 ,
	1					İ			
	AP				or, Title, Date, Pertine	nt Pages, et	c.)		
pr	AR	23			R., "Structure and Nuclo s Leave the Protein-Encod			he Putative Cell 39:233	Mammary Oncoge 5-240 (1984).
	AS	23	Voss, A.K 180 (June	., et al., "Effi 1998).	ciency Assessment of the	Gene Trap A	Approach,	" Develop. I	Dynamics 212:17
pn	AT	23	Fxtrachr	, E.M., et al., omosomal Persist er 1998).	"A System for Shuttling a ence and Long-Term Ectop	200-kb BAC/P ic Gene Acti	AC Clone vation,	s into Humar <i>Human Gene</i>	n Cells: Stable Ther. 9:1863-1
		1	1				DATE CON	SIDERED C	1/11/11/11/11/11/11/11/11/11/11/11/11/1
EXAMINER				\mathcal{L}		1	DATE CON	319CK=-	1/00(0)

					ATTY. DOCKET NO. 5817-70		Yet Assi	1960,897 gued
	F	ORM PTO	-1449		APPLICANT Harrington et 21.			
11	FORMATION	DISCLO	SURE STATE	<u>KENT</u>	FILING DATE 01/17/07	GROUP	1632	lyned
·					J.S. PATENT DOCUMENTS			
			<u> </u>		J.S. PAILIN DECEMBER		SUB-CLASS	FILING DATE
INER	1	DOCUME	NT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FICING DAIL
TIAL	M							
	AB							
	AC							
	AD							
	AE	<u> </u>						
	AF	<u> </u>						
	AG	 						
	AH			-			 	
	AI	╂						
	- AJ			1				<u> </u>
	AK				FOREIGN PATENT DOCUMENTS			T
		Т				CLASS	SUB-CLASS	TRANSLATION
AMINER ITIAL		DOCUM	ENT NUMBER	DATE	COUNTRY			Y
		1		,				Y
	AL	┼─				l		
	АМ							Y
								 ,
	AN					1		
	AO		·					,
		10						
	AP		OTUE	/Including	Author, Title, Date, Pertinent Pag	ges, etc.)		
Rh	AR	24	Xiong, J. Embryoid	-W., et al., Bodies Using	"Large-Scale Screening for Develo Retroviral Entrapment Vectors," [opmental Genes Develop. Dynam	in Embryoni ics 212:181-	c Stem Cells am 197 (June 1998)
	AS	24		, and Duesber ming gene the 87:9128-9132	rg, P.H., "A retroviral promoter i at is distinct from the <i>SPC</i> gene o 2 (1990).	s sufficient f Rous sarcom	to convert p a virus," Pr	roto-src to a oc. Natl. Acad.
	AT	24	Dialog	File 351, Der	went WPI English language abstrac	t for FR 2 70	7 091, 199	5.
pm		1	l l					
			7.0		her or not citation is in conforma d. Include copy of this form with	li'	ONSIDERED C	Mest 15

APPLICATION NO. 59/760 897
Not You Assigned ATTY. DOCKET NO. 5817-70 Harrington et al. GROUP FILING DATE 61 Concurrent1 U.S. PATENT DOCUMENTS FILING DATE SUB-CLASS_ CLASS FOREIGN PATENT DOCUMENTS SUB-CLASS TRANSLATION CLASS Yes No Yes No Yes No Yes No

	AO	ļ							Y
	AP				Tiete Date F	ertinent Pages.	etc.)		
			OTHER (Including Author	, fitte, bate, F	ertinent Pages,			
	AR	<u>25</u>	Drug Discov	ery Kews, "Lexic	on Genetics, Inc	Genetic Engi	n. News 19: 3 5	(March 1999).	•
	Ì								
	AS								
							<u>-</u>		
	 	-					-		-
	AT	1	1						
		1							
		<u> </u>				~	DATE CONSID	DERED	
EXAMINER				•					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

APPLICANT

NAME

COUNTRY

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

DOCUMENT NUMBER

DOCUMENT NUMBER

DATE

DATE

EXAMINER

INITIAL

EXAMINER

INITIAL

AB AC AD ΑE ۸F AG AH ΑI AJ AK

AL